

## ABSTRACT

A high sensitivity of a Super-Regenerative Radio Frequency Receiver and its method is provided in the embodiment of the present invention. By using a common-mode feedback circuit and by replacing the rectifier with a feedback integral-rectifier, the rectifier, the low-pass filter, and the slicer will not be saturated during operation so that the output of the slicer is correctly generated, and the sensitivity of the Super-Regenerative Radio Frequency Receiver is greatly improved as a result.